

a color picture tube provided with an electron gun and a phosphor screen on which an electron beam emitted from said electron gun impacts, in a bulb including a front panel and a funnel, and

a deflection yoke attached to a neck portion of said bulb and deflecting said electron beam,

wherein said color picture tube is further provided with a preliminary deflection member for applying a preliminary vertical deflection force to said electron beam such that the preliminary vertical deflection force when an electron beam is deflected toward the peripheral portion in the vertical direction of said phosphor screen is made relatively smaller than the preliminary vertical deflection force when an electron beam is deflected toward the middle portion in the vertical direction of said phosphor screen, so that an upper and lower pincushion distortion in a peripheral portion in the vertical direction is increased, and

wherein said upper and lower pincushion distortion in the peripheral portion in the vertical direction is corrected by a deflection magnetic field generated by said deflection yoke, thereby correcting an upper and lower inner pincushion distortion in said middle portion in the vertical direction.

2. (Once Amended) The color picture tube apparatus according to claim 1, wherein the preliminary deflection member comprises a correction coil mounted at the side of said electron gun of said deflection yoke, and

wherein a vertical deflection current flows through said correction coil when said electron beam is deflected toward the peripheral portion in the vertical direction of said phosphor screen, but a vertical deflection current does not flow through said correction coil when said electron beam is deflected toward the middle portion in the vertical direction, and

said correction coil generates a preliminary deflection magnetic field opposing the vertical deflection magnetic field by said current flowing when the electron beam is deflected toward the peripheral portion in the vertical direction.

Please add the following claim:

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5. (New) The color picture tube apparatus according to claim 1, wherein the preliminary deflection force is applied to the electron beam before the electron beam is corrected by the deflection magnetic field.

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